

PISTON DAMPER ASSEMBLY, AND DUST TUBE SUBASSEMBLY,
HAVING A VELOCITY SENSOR

ABSTRACT OF THE DISCLOSURE

A piston damper assembly includes a piston damper and a
5 relative velocity sensor. The piston damper includes a damper body, a piston
rod, and a dust tube which is attached to the piston rod. The relative velocity
sensor includes an axially extending first magnet supported by the dust tube, a
flux collector, and a first sensor coil. The flux collector is supported by the dust
tube, includes an axially-extending first prong in axially-extending contact with
10 the first magnet, includes an axially-extending second prong, and includes a
joining member connecting the first and second prongs. The first sensor coil
surrounds the joining member and/or one of the first and second prongs. A
piston-damper dust tube subassembly includes the dust tube and the relative
velocity sensor.